(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





31 JAN 2005

(43) International Publication Date 19 February 2004 (19.02.2004)

PCT

(10) International Publication Number WO 2004/014326 A1

(51) International Patent Classification7: 7/50, C11D 1/65

A61K 7/075.

(74) Agent: THE PATENT CORPORATE BODY ARUGA PATENT OFFICE; KYODO BLDG., 3-6, NIHON-BASHININGYOCHO 1-CHOME, CHUO-KU, Tokyo 103-0013 (JP).

(21) International Application Number:

PCT/JP2003/010138

(22) International Filing Date: 8 August 2003 (08.08.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2002-232732

9 August 2002 (09.08.2002) JP

(71) Applicant (for all designated States except US): KAO CORPORATION [JP/JP]; 14-10, NIHON-BASHIKAYABACHO 1-CHOME, CHUO-KU, Tokyo 103-8210 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): TERADA, Eiji, [JP/JP]; C/O KAO CORPORATION RESEARCH LAB-ORATORIES, 1-3, BUNKA 2-CHOME, SUMIDA-KU, Tokyo 131-8501 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,

SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DETERGENT COMPOSITIONS

(57) Abstract: AbstractProvided is a detergent composition comprising the following components (a), (b) and (c): (a) an anionic surfactant, (b) a water soluble cationized polymer having a weight average molecular weight of from 100,000 to 2,000,000 and a charge density of from 0.6 to 4 meq/g, and (c) a silicone derivative having a group containing both a hydroxy group and a nitrogen atom as a side chain thereof bonded to a silicon atom. The detergent composition provides rich foaming during washing and at the same time and is capable of giving excellent conditioning effects to the hair and the like.1 1



